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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/636,174
				Filing Date	August 7, 2003
				First Named Inventor	Andrew R. Barron
				Group Art Unit	1713
				Examiner Name	Ling Siu Choi
Sheet	1	of	7	Attorney Docket Number	1789-11001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
Lee	AA	US-4,496,714	01-29-1985	Murata et al.	
	AB	US-4,676,928	06-30-1987	Leach et al.	
	AC	US-4,952,634	08-28-1990	Grossman	
	AD	US-5,212,261	05-18-1993	Stierman	
	AE	US-5,593,781	01-14-1997	Nass et al.	
Lee	AF	US-5,418,298	05-23-1995	Laine et al.	Duplicants
	AG	US-4,496,714	01-29-1985	Murata et al.	
Lee	AH	US-4,676,928	06-30-1987	Leach et al.	
	AI	US-6,369,183	04-09-2002	Cook et al.	
Lee	AJ	US-6,322,890	11-27-2001	Barron et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
Lee	AL	EPO 0576695	06-26-1992	Aluminum Company of America		

Examiner Signature	<i>Ling Siu Choi</i>	Date Considered	3/5/06
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lc	AM	ZASPALIS et al., <i>Synthesis and Characterization of Primary Alumina, Titania and Binary Membranes</i> , Journal of Materials Science 27 (1992) pp. 1023-1035		
	AN	YOLDAS, <i>Alumina Gels that Form Porous Transparent Al<sub>2</sub>O<sub>3</sub></i> , Journal of Materials Science 10 (1975) pp. 1856-1860		
	AO	LOW et al., <i>Synthesis and Properties of Spodumene-modified Mullite Ceramics formed by Sol-gel Processing</i> , Journal of Materials Science Letters 16 (1997) pp. 982-984		
	AP	NIKOLIC et al., <i>Alumina Strengthening by Silica Sol-gel Coating</i> , Thin Solid Films 295 (1997) pp. 101-103		
	AQ	REZGUI et al., <i>Chemistry of Sol-Gel Synthesis of Aluminum Oxides with in Situ Water Formation: Control of the Morphology and Texture</i> , Chem Mater (1994) 6, pp. 2390-2397		
	AR	SERNA et al., <i>Division S-9 ---Sole Mineralogy</i> , Soil Sci. Soc. Am. Journal, Vol. 41 (1997) pp. 1009-1013		
	AS	KINGERY et al., <i>Introduction to Ceramics</i> Wiley-Interscience Publication, 1960		
	AT	LANDRY et al., <i>From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids</i> , Journal of Mater. Chem., 1995, 5(2) pp. 331-341		
	AU	LAO et al., <i>Microporous Inorganic Membranes: Preparation by the Sol-gel Process and Characterization of Unsupported Composite Membranes of Alumina and Polyoxoaluminium Pillard Montmorillonite</i> , Journal of Materials Science Letters 13 (1994) pp. 895-897		
	AV	SIRKAR, <i>New Membrane Materials and Processes for Separation</i> , Published by American Institute of Chemical Engineers, 1988		
lc	AW	KAREIVA et al., <i>Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction</i> , Chemistry of Materials Vol. 8, Number 9, pp. 2331-2340		

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LC	AX	WILSON et al., <i>The Porosity of Aluminum Oxide Phases Derived from Well-Crystallized Boehmite: Correlated Electron Microscope, Adsorption, and Porosimetry Studies</i> , Journal of Colloid and Interface Science, Vol. 82, No. 2, August 1981 (pp. 507-517)	
	AY	ADKINS, <i>The Selective Activation of Alumina for Decarboxylation or for Dehydration</i> , Selective Activation of Alumina pp. 2175-2186	
	AZ	COURTRIGHT, <i>Engineering Property Limitations of Structural Ceramics and Ceramic Composites Above 1600°C</i> , Ceramic Engineering Science Proc. 12(9-10) pp. 1725-1744 (1991)	
	BA	ELALOUI et al., <i>Influence of the Sol-Gel Processing Method on the Structure and the Porous Texture of Nondoped Aluminas</i> , Journal of Catalysis 166, pp. 340-346 (1997)	
	BB	NOGAMI, <i>Sol-gel Preparation of SiO<sub>2</sub> Glasses Containing Al<sub>2</sub>O<sub>3</sub> or ZrO<sub>2</sub></i> , Journal of Non-Crystalline Solids 178 (1994) pp. 320-326	
	BC	OKUBO et al., <i>Preparation of <math>\gamma</math>-alumina Thin Membrane by Sol-gel Processing and its Characterization by Gas Permeation</i> , Journal of Materials Science 25 (1990) pp. 4822-4827	
	BD	REZGUI et al., <i>Control of Magnesia-alumina Properties by Acetic Acid in Sol-gel Synthesis</i> , Journal of Non-Crystalline Solids 210 (1997) pp. 287-297	
	BE	SHELLEMAN et al., <i>Alpha Alumina Transformation in Seeded Boehmite Gels</i> , Journal of Non-Crystalline Solids 82 (19986) pp. 277-285	
	BF	WILES et al., <i>Thermal Stability and its Improvement of the Alumina Membrane Top-layers Prepared by Sol-gel Methods</i> , Journal of Materials Science, 26 (1991) pp. 715-720	
	BG	MICHALSKE et al., <i>Strength and Toughness of Continuous-Alumina-Fiber-Reinforced Glass-Matrix Composites</i> , Journal of American Ceramic Society, Vol. 71, No. 9 pp. 725-731 (1988)	
LC	BH	ANDERSON et al., <i>Titania and Alumina Ceramic Membranes</i> , Journal of Membrane Science, 39 (1988) pp. 243-258	

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LC	BI	BALTUS, <i>Characterization of the Pore Area Distribution in Porous Membranes Using Transport Measurements</i> , Journal of Membrane Science, 123 (1997) pp. 165-184	
	BJ	FURNEAUX et al., <i>The Formation of Controlled-porosity Membranes from Anodically Oxidized Aluminum</i> , Nature Vol. 337, January 12, 1989 (pp. 147-149)	
	BK	KIM et al., <i>Hydraulic and Surface Characteristics of Membranes with Parallel Cylindrical Pores</i> , Journal of Membrane Science, 123 (1997) pp. 303-314	
	BL	C. LANDRY, et al; <i>Siloxy-Substituted Alumoxanes: Synthesis from Polydialkylsiloxanes and Trimethylaluminum, and Application as Aluminosilicate Precursors</i> ; J. Mater. Chem. 1993; (pp. 597 – 6020)	
	BM	H. SCHMIDT AND H. KRUG, "Sol-gel-based inorganic-organic composite materials", ACS Symp. Se. 572, No. Inorganic and Organometallic Polymers II, 183-194, (1994)	
	BN	Y. KIMURA, S. TANIMOTO, H. YAMANE, T. KITAO, "Coordination Structure of the Aluminium Atoms of Poly (Methylaloxane), Poly (Isopropoxylaloxane) and Poly [Acyloxy] Aloxane]", Polyhedron, Vol. 9, no. 2/3, 371-376, (1990)	
	BO	HARRY S. KATZ, et al. <i>Handbook of Fillers and Reinforcements for Plastics</i> , Van Nostrand Reinhold Company, 1978 (49 p.)	
	BP	BRYAN ELLIS, <i>Chemistry and Technology of Epoxy Resins</i> , Blackie Academic & Professional, an Imprint of Chapman & Hall, (80 p.)	
	BQ	R. KASEMANN, H. SCHMIDT; <i>Coatings for Mechanical and Chemical Protection based on Organic-Inorganic Sol-Gel Nanocomposites</i> ; New Journal of Chemistry, Vol. 18, No. 10-1994; (pp. 1117-1123)	
	BS	C. VOGELSON, et al; <i>Inorganic-Organic Hybrid and Composite Materials Using Carboxylate-Alumoxanes</i> ; World Ceramics Congress, June 14-19, 1998; (pp. 499 - 506)	
LC	BT	S. PASYNKIEWICZ, <i>Alumoxanes: Synthesis, Structures, Complexes and Reactions</i> , Polyhedron, Vol. 9, No. 2/3, 1990 (25 p.)	


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Lee	BU	K. NAKAMAE, et al; <i>Studies on Mechanical Properties of Polymer Composites by X-Ray diffraction: 3. Mechanism of Stress Transmission in Particulate Epoxy Composite by X-Ray Diffraction</i> ; Polymer, 1992, vo.. 33, No. 13; (pp. 2720-2724)	
	BV	H. JULLIEN, et al. <i>The Microwave Reaction of Phenyl Glycidyl Ether with Aniline on Inorganic Supports: a Model for the Microwave Crosslinking of Epoxy Resins</i> ; Polymer, Vol. 37, No. 15; 1996; (pp. 3319-3330)	
	BW	H. SCHMIDT, et al; <i>Chemistry and Applications of Inorganic-Organic Polymers</i> ; Mat. Res. Soc. -Symp. Prac. Vol. 73; 1986; (pp. 739-750)	
	BX	J. DEWIT, et al; <i>Evaluation of Coatings - A Total System Approach</i> ; Materials Science Forum, vol. 247 (1997) (pp. 69-82)	
	BY	JACQUELINE I. KROSCWITZ, et al., <i>Encyclopedia of Polymer Science and Engineering</i> , Vol. 6, <i>Emulsion Polymerization to Fibers, Manufacture</i> , A Wiley-Interscience Publication, 1985, (66 p.)	
	BZ	K. ANDRIANO, et al; <i>Synthesis of New Polymers with Inorganic Chains of Molecules</i> ; Journal of Polymer science, Vol. XXX, 1958 (pp. 513-524)	
	CA	G. WHITESIDE, et al; <i>Articles; Molecular Self-Assembly and Nanochemistry: A chemical Strategy for the Synthesis of Nanostructures</i> ; Science, Vol. 254, November 1991; (pp. 1312 - 1319)	
	CB	MALCOLM P. STEVENS, <i>Polymer Chemistry, An Introduction</i> , Oxford University Press, 1990 (9 p.)	
	CC	CHRISTOPHER C. LANDRY, et al., <i>From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids</i> , Department of Chemistry, Harvard University, 1995 (11 p.) <i>J. MATER. CHEM., 5(12), 331-341 (1995)</i>	
	CD	A. APBLET, et al; <i>Synthesis and Characterization of Triethylsiloxy-Substituted Alumoxanes: Their Structural Relationship to the Minerals Boehmite and Diaspore</i> ; American Chemical Society; 1992; (pp. 167-181)	
Lee	CE	Y. KOIDE, et al; <i>[Al<sub>2</sub>(Bu)<sub>2</sub>(μ<sub>3</sub>-O)<sub>2</sub>(μ-OH)<sub>2</sub>(μ-O<sub>2</sub>CPh)<sub>2</sub>]: A Model for the Interaction of Carboxylic Acids with Boehmite</i> ; American Chemical Society 1995; (pp. 4025-4029)	
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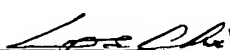
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	CG	J. M. G. COWIE, Professor of Chemistry, University of Stirling, <i>Polymers: Chemistry and Physics of Modern Materials</i> , Intertext Books, (13 p.)	
	CH	<del>TOMLINSON et al.</del> ✓ Thermal Conductivity of Epoxy resin-Aluminium (0 to 50%); and Diavalent Chromium in Alkaline Earth Silicate Systems; <del>CHAPMAN AND HALL Ltd., 1977; (pp.1689-1691)</del> <i>J. OF MATERIALS SCIENCE, 12 1689-1690 (1977)</i>	
	CI	H. SCHMIDT et al., <i>Inorganic-Organic Hybrid Coatings for Metal and Glass Surfaces</i> , American Chemical Society 1995 (pp. 331-347)	
	CJ	Chemical Abstracts, vol. 111, no. 24, December 11, 1989, abstract no. 218306m, UHLHORN, R.J.R.: High permselectivities of microporous silica modified gamma-alumina membranes: XP000181419	
	CK	CINIBULK, <i>Microstructure and Mechanical Behavior of an Hibonite Interphase in Alumina-Based Composites</i> , Ceramic Eng. & Science Proceedings of the 19 <sup>th</sup> Annual Conference and Exhibition on Composites, Adv. Ceramics, Materials, and Structures Part B. January 8-12, 1995, Vol. 16 No. 5	
	CL	CINIBULK et al., <i>Textured Magnetoplumbite Fiber-Matrix Interphase Derived from Sol-Gel Fiber Coating</i> , J. AM Ceram. Soc. 79 [5] 1233-1246 (1996)	
	CM	CINIBULK, <i>Magnetoplumbite Compounds as a Fiber Coating in Oxide/Oxide Composites</i> , Ceramic Eng. And Science Proc. 18 <sup>th</sup> Annual Conference, Vol. 15, No. 15 September - October 1994, pp. 721-728	
	CN	BHAVE et al., <i>Membrane Materials and Processes Removal of Oily Contaminants in Wastewater with Microporous Alumina Membranes</i> , pp. 19-27 (1988)	
	CO	GUIZARD et al., <i>Chemical Processing of Ceramics, Ceramic Membrane Processing</i> , pp. 501-553, (1994)	
LC	CP	CINIBULK, <i>Thermal Stability of Some Hexaluminates at 1400°C</i> , Journal of Material Science Letters 14 (1995) pp. 651-654	

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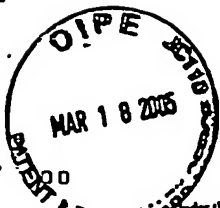
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	CR	DEFRIEND et al., <i>A Simple Approach to Hierarchical Ceramic Ultrafiltration Membranes</i> , Journal of Membrane Science 212 (2003) pp. 29-38	
	CS	DEFRIEND et al., <i>A Flexible Route to High Strength <math>\alpha</math>-alumina and Aluminate Spheres</i> , Journal of Materials Science 38 (2003) pp. 2673-2678	
	CT	HAY et al., <i>Sol-Gel Coatings on Continuous Ceramic Fibers</i> , Ceramic Eng. Sci. Proc. 11[9-10] pp. 1526-1538 (1990)	
lee	CH	MAUCK, "Divalent CHROMIUM ZN ALKALINE EARTH SILICATE SYSTEMS", J. OF MATERIALS SCIENCE, 12, 1690-1691 (1977)	

Examiner Signature	<i>Ling Siu Choi</i>	Dated Considered	3/3/06
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/636,174	
			Filing Date	August 7, 2003	
			First Named Inventor	Andrew R. Barron	
			Group Art Unit	1713	
			Examiner Name	Ling Siu Choi	
Sheet	1	of	1	Attorney Docket Number	1789-11001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>LC</i>	AA	US-6,770,773	08/03/2004	Rose et al.	
	AB	US-6,369,183	04/09/2002	Cook et al.	
	AC	US-6,322,890	11/27/2001	Barron et al.	
<i>LC</i>	AD	US-6,207,130	05/27/2001	Karciva et al.	

FOREIGN PATENT DOCUMENTS						
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